

Date: Tuesday, 23/09/2008 3:22:51 PM
 User: Julie Lecocq

Process Sheet

Customer :	CU-DAR001 Dart Helicopters Services	Drawing Name :	BO 105 SKIDTUBE ASSEMBLY
Job Number :	42261		
Estimate Number :	10112		
P.O. Number :		Part Number :	D105674011G
This Issue :	23/09/2008	Drawing Number :	D2966 REV A2
Prsht Rev. :	NC	Project Number :	N/A
First Issue :	//	Drawing Revision :	A2
Previous Run :	42260	Material :	
Written By :		Due Date :	05/10/2008
Checked & Approved By :	JLD 08.9.23	Qty:	1
Comment :	Est Rev:A 04.07.07 New Issue KJ/JLM	Um:	Each

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
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1.0	DC	DOCUMENT CONTROL
-----	----	------------------



JLD 08.10.01



Comment: DOCUMENT CONTROL

Photocopy bluefile & type labels per PPP D105-674-011G CHG002

2.0	D2962125	Outer Tube Extrusion
-----	----------	----------------------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2962-125 Extrusion 17532

RT 08-09-24

3.0	SKIDTUBES 1	SKIDTUBESS RESOURCE 1
-----	-------------	-----------------------



Comment: LANDING GEAR RESOURCE 1

1-Determine square end of tube and deburr

2-Drill #30 pilot holes using DT8678. Open holes to Ø5/16" (0.313"). Deburr holes.

RT 08 07-24

4.0	BENDING	BENDING MACHINE - SKIDTUBES
-----	---------	-----------------------------



Comment: BENDING MACHINE

Bend tube as per program BO105 on CNC Bender and Dwg D2966. Use 5/16" locator pin on buggy "A".

RT 08 09-24

5.0	SKIDTUBES 1	SKIDTUBESS RESOURCE 1
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Comment: LANDING GEAR RESOURCE 1

1-Cut Fwd end of the tube using DT8185-1G

RT 08 09-24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

2-Cut Aft end at 107.06" using DT8185D

3-Debur ends

4-Drill Aft Cap holes using DT8678

5-Locate DT8679 with 1/8 clecos in Aft Cap holes. Ensure DT8679 is centered on Fwd end of tube and drill #40 Fwd bushing.

6-Clamp DT8679 to the tube. Drill all #30 wearplate and crossbolt holes.

7-Open Aft Cap holes using #6 drill

8-Open wearplate holes and two side holes to Ø19/64" (0.297") as per Dwg

D2966-1.

9-Debur holes.

10-Open remaining (16) crossbolt holes to Ø0.500

8T
08-09-24

6.0

D2964

Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2964

Cap

314101

A/R

Aluminum Rod

M108708/M107877

8E 08/09/25

7.0

SKIDTUBES 1

SKIDTUBESS RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Weld Fwd Cap as per Dwg D2966 and QSI 004. Fill #40 Fwd cleco hole.

8E 08/09/25

2-Grind Fwd Cap welds flush

8T 08-09-25

8.0

QC10

VISUAL INSPECTION OF GROUND WELDS



Comment: VISUAL INSPECTION OF GROUND WELDS

8 08/09/25 (80)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BO 105 SKIDTUBE ASSEMBLY

Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:	Machine Or Operation:	Description :
---------	-----------------------	---------------

9.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

S 08/09/05 (70)

10.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

RT 08-09-25

11.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

Q.M 08.09.25 (1)

12.0

SKIDTUBES 1

SKIDTUBESS RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Open crossbolt holes to finish size as per Dwg D2966

2-Open 14 holes to Ø0.750" & 2 holes to Ø0.875", countersink crossbolt holes & remove alodine to prepare for welding as per Dwg D2966

3-Deburr holes inside & outside, blow out chips

} RT 08-09-25

13.0

D2976

BO 105 Skidtube I Beam



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Numbe

Description Batch

1 D2976 Web

42261 B

42623

(1)

M 8-10-23

~~RT 08-09-25~~

14.0

D2971

Cross Bolt Spacer



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2971 Crossbolt Spacer

B39011

(1)

M 8-10-23

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Drawing Name: BO 105 SKIDTUBE ASSEMBLY

Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

15.0

D2973

Cross Bolt Spacer



Comment: Qty.: 7.0000 Each(s)/Unit Total: 7.0000 Each(s)

Pick:

Qty Part Number Description Batch

7 D2973 Crossbolt Spacer

B14636

7

M 8-10-23

16.0

SKIDTUBES 1

SKIDTUBESS RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Bond Web in place per QSI 015. (Ensure holes line up)

Pick:

Qty Part Number Description Batch

A/R Sikaflex-291

~~109338~~ M109338

Sikaflex expiry date:

~~08-11-01~~ 8-11-01

~~08-09-25~~ M 8-10-22

2-Weld Crossbolt Spacers as per Dwg D2966 and QSI 004. For crossbolt spacer, weld one side, pass 5/8" drill; weld other side, pass 5/8" drill.

Pick:

Qty Part Number Description Batch

A/R Aluminum Rod

M109213 BE 08-10-23

3-Pass Ø0.630" drill to remove spillover for D2973 crossbolt. Pass Ø0.750" drill to remove spillover for D2971 crossbolt.

BE 08/10/23

4-Grind welds flush as per Dwg D2966

AWM 8-10-24

17.0

QC10

VISUAL INSPECTION OF GROUND WELDS



Comment: VISUAL INSPECTION OF GROUND WELDS

S 08/10/22 (X)

18.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

S 08/10/22 (X)

19.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3

Pressure wash - FK 08/11/05
M-1 08/11/05

(14)

(1)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

20.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



HL



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

08-11-12

(X)

21.0

D2965

Cap, 105 Skidtube



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2965

Cap

B 43297

HL

22.0

D29701

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2970-1

Wearplate

B 14589

HL

23.0

D29703

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2970-3

Wearplate

B 14590

HL

24.0

D31761

Bushing



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D3176-1

Bushing

B 35627

HL

25.0

D31763

Nut



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D3176-3

Nut

M 37585

HL

08-11-12

(X)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Drawing Name: BO 105 SKIDTUBE ASSEMBLY

Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

26.0

ALS71032130

Insert



Comment: Qty.: 36.0000 Each(s)/Unit Total: 36.0000 Each(s)

Pick:

Qty Part Number Description Batch

36 ALS7-1032-130 Insert M105819 *

or ALS4-1032-130

or AKS7-1032-130

or AKS4-1032-130

JA

27.0

AN960JD10L

Washer



Comment: Qty.: 28.0000 Each(s)/Unit Total: 28.0000 Each(s)

Pick:

Qty Part Number Description Batch

28 AN960JD10L Washer M105793

JA

28.0

MS27039108

Screw



Comment: Qty.: 26.0000 Each(s)/Unit Total: 26.0000 Each(s)

Pick:

Qty Part Number Description Batch

26 MS27039-1-08 Screw M109061

JA

29.0

MS27039109

Screw



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 MS27039-1-09 Screw M18057

JA

30.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Inspect for foreign objects as per QSI 024

2-Install Inserts, Wearplate and Cap per Dwg D2966. Insert a drop of sikaflex at insert holes before installing wearplates. Seal Aft Cap using Sikaflex. Install bushing and nut. By looking Fwd, install nut to right hand side.

Pick:

JA

08-11-12

(K)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Drawing Name: BO 105 SKIDTUBE ASSEMBLY

Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description:

Qty Part Number Description Batch
A/R Sikaflex-291 M107062
Sikaflex expiry date: 08/11

3-Wing Walk as per Dwg D2966 and QSI 005 4.4
Batch: M1209219

Handwritten: 08-11-12

31.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

32.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*****ENSURE INSERT ARE AT LOCATION (6) AS PER DWG D2966*****

33.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick: Packing Kit

34.0

D2972

Bushing



Comment: Qty.: 6.0000 Each(s)/Unit Total: 6.0000 Each(s)

Pick: Packing Kit

Qty Part Number Description Batch
6 D2972 Bushing 14103

Handwritten: 08/11/13

35.0

D2974

Packer



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number Description Batch
1 D2974 Packer 34249

Handwritten: 08/11/13

36.0

D2975

Wearshoe



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick: Packing Kit

Qty Part Number Description Batch
2 D2975 Wearplate 29538

Handwritten: Batch not in comp.

Handwritten: 08/11/13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BO 105 SKIDTUBE ASSEMBLY

Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

37.0

AN451A

Bolt



PTO

Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

3 AN4-51A Bolt

108376

SS 08/11/13

38.0

AN960JD10L

Washer



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

8 AN960JD10L Washer

M105793

SS 08/11/13

39.0

MS21042L4

Nut



Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

3 MS21042L4 Nut

M108145

SS 08/11/13

40.0

MS27039108

Screw



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

8 MS27039-1-08 Screw

M107378

SS 08/11/13

41.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



08-11-13 ①

Comment: INSPECT 100% KITS FOR COMPLETENESS

42.0

PACKAGING 1

PACKAGING RESOURCE #1



(1x)

Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D105-674-011G

Location:

82 Rev A

8/11/13

50

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D105-674-011G PAR #: N/A Fault Category: Per - Sales NCR: (Yes) No DQA: 1A Date: 08-11-17
 Resolution: Re-work Disposition: Re-work QA: N/C Closed: 10 Date: 08/11/20

NCR: <u>42261</u>		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
08-11-13	37-0	Qty 8 AN4-S4A bolts were pulled & bagged. W/O & Parts list call up 3. Re: Lack of attention	<u>GS/142</u>	re stock Qty 5 M 108376	<u>[Signature]</u>	<u>08-11-13</u>	<u>GS/142</u>	<u>08-11-13</u>

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Job Number: 42261

Part Number: D105674011G

Job Number:



Seq. #:

Machine Or Operation:

Description :

43.0

QC21

FINAL INSPECTION/W/O RELEASE



08/11/13

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



MF 08-11-13

3412261

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



DESIGN RF	DRAWN BY RF	DART AEROSPACE USA, INC. BELLEVUE, WA	
CHECKED [Signature]	APPROVED [Signature]	DRAWING NO. D2966	REV. A SHEET 1 OF 2
DATE 00.03.08		TITLE BO 105 SKIDTUBE ASSEMBLY	SCALE NTS
A	00.03.08	NEW ISSUE	

RELEASED
00.05.11 [Signature]

Qty	Part Number	Description
X	D2966-041	SKIDTUBE ASSEMBLY
1	D2962-125	EXTRUSION
1	D2964	CAP
1	D2965	CAP
1	D2970-1	WEARPLATE
1	D2970-3	WEARPLATE
1	D2971	CROSS BOLT SPACER
7	D2973	CROSS BOLT SPACER
1	D2976	WEB
36	ALS7-1032-130 or ALS4-1032-130 or AKS7-1032-130 or AKS4-1032-130	INSERT
28	AN960JD10L	WASHER
26	MS27039-1-08	SCREW
2	MS27039-1-09	SCREW
1	D3176-1	BUSHING
1	D3176-3	NUT

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) WELDING TO BE DONE PER DART QSI 004.
- 3) INSERT D2976 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015 AFTER BENDING.
- 4) USE DART DRILL TEMPLATE DT8451 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION B-B (34 PLACES) AFTER FINISH. SEAL WEARPLATE SCREWS WITH SIKAFLEX-241/-291.
- 5) DO NOT INSTALL MS27039-1-08 SCREWS AND AN960JD10L WASHERS IN THESE LOCATIONS.
- 6) INSTALL ALS7-1032-130 INSERT, MS27039-1-08 SCREW, AND AN960JD10L WASHER IN 2 PLACES THIS LOCATION BEFORE POWDER COATING.
- 7) FINISH:

ACID ETCH, ALODINE PER DART QSI 005 4.1 PRIOR TO INSERTING D2976 WEB
POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART
QSI 005 4.4 (OPTIONAL) BLACK SANDTEX (REF 4.3.5.7)

01.01.29
CP 01.01.30



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 42261

A2	02.10.30	ADD D3176-1/-3	[Signature]
A1	01.01.29	CHANGE COLOR TO BLACK SANDTEX	[Signature]

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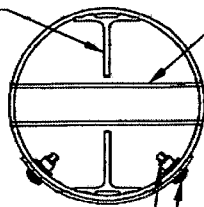
BLACK ANTI-SKID

DETAIL

USE D2962-125 EXTRUSION

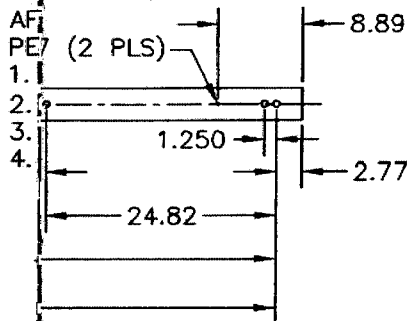
SECTION B-B
SCALE 1:6

D2976 WEB (REF)



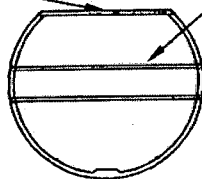
ALS7-1032-130 INSERT (34 PLACES)

MS27039-1-08 SCREW (1)
AN960JD10L WASHER (1)
(26 PLACES)



SECTION C-C
SCALE 1:6

D2964 CAP (REF)



BLACK ANTI-SKID

D2976 WEB

REFER TO DETAIL D

DETAIL D
SCALE 1:6

0.40

D2976 WEB (REF)

1.50

6. RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 42261

DRAWN BY
RF

PROVED
RF

DART

DART AEROSPACE USA, INC.
BELLEVUE, WA

DRAWING NO.
D2966

REV. A
SHEET 2 OF 2

TITLE
BO 105 SKIDTUBE ASSEMBLY

SCALE
1:20

NO. 172

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliot
Job number: 41331
Part number: D105 674 011
Description: B0105 skid tube
Welding Process: Tig[☒] Mig[]
Base material: Aluminium
Current: AC[☒] DC[]

TEST REQUIREMENTS AND RESULTS

Visual:

pass[☒] fail[]

Penetration:

pass[] fail[]

UNACCEPTABLE

Cracks:

pass[☒] fail[]

Undercut:

pass[☒] fail[]

Pin holes:

pass[☒] fail[]

Overlap (cold lap)

pass[☒] fail[]

Porosity (surface):

pass[☒] fail[]

Coloration:

pass[☒] fail[]

Qualifier Ed Dwyer  Date of Test Coupon 08-09-05

Welder Barclay Elliot  Date of Test Coupon 08-09-05

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

